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Quality Engineering Test Report

SERIES: DKE15B 15W DC-DC DUAL OUTPUT CONVERTER

SAMPLE:
A:DKE15B-05 V1: +5V / 1.5A
V2: -5V / 1.5A
B:DKE15B-12 V1:+12V / 0.625A
V2:-12V / 0.625A
C:DKE15B-15 V1:+15V / 0.5A
V2:-15V / 0.5A

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P:TESTING SPEC: 18~36VDC O/P:FULL LOAD	A:16.2~36VDC	P
2	LINE REGULATION	I/P:18~36VDC SPEC: ±0.3% O/P:FULL LOAD	A: V1: -0.2% ~ +0.01% V2: -0.01% ~ +0.01% B: V1: -0.08% ~ +0% V2: -0.09% ~ +0% C: V1: -0% ~ +0.01% V2: -0.01% ~ +0%	P
3	LOAD REGULATION	I/P:24VDC SPEC: ±2% O/P:MIN. TO FULL LOAD	A: V1: -0.01% ~ +0% V2: -0.01% ~ +0% B: V1: -0.08% ~ +0% V2: -0.01% ~ +0% C: V1: -0.07% ~ +0% V2: -0.01% ~ +0%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P:18~36VDC SPEC: ±2% O/P:MIN. TO FULL LOAD	A: V1: -2.8% ~ +3.0% V2: -3.0% ~ +3.0% B: V1: -2.12% ~ +2.1% V2: -2.15% ~ +2.15% C: V1: -1.66% ~ +1.33% V2: -1.4% ~ +1.6%	P
5	RIPPLE&NOISE	I/P:24VDC SPEC: A:50mV O/P:FULL LOAD B:60mV C:60mV	A: V1: 15mV V2: 15mV B: V1: 10mV V2: 13mV C: V1: 13mV V2: 15mV	P
6	DC INPUT CURRENT	I/P:24VDC SPEC: NONE O/P:FULL LOAD	A:0.78A	P
7	O/P VOLTAGE ADJ. RANGE	I/P:24VDC SPEC: NONE O/P:MIN. LOAD	A: V1: +5.06V V2: -5.03V B: V1: +12.12V V2: -12.09V C: V1: +15.07V V2: -15.03V	P
8	SET UP TIME	I/P:24VDC SPEC: NONE O/P:FULL LOAD	A:101.0mS	P
9	HOLD UP TIME	I/P:24VDC SPEC: NONE O/P:FULL LOAD	A:0.56mS	P
10	EFFICIENCY	I/P:24VDC SPEC: 76% TYP O/P:FULL LOAD	A: 80.6% B: 82.4% C: 85.8%	P
11	OVER LOAD PROTECTION	I/P:24VDC SPEC: NONE O/P:TESTING	A: 132% B: 145% C: 212%	P
12	INSULATION RESISTANCE	SPEC: I/P--O/P: 500VDC/100M Ohms MIN.	A: I/P--O/P >100M Ohms	P
13	DIELECTRIC / WITHSTAND VOLTAGE	SPEC: I/P--O/P: 500VDC/ 1 min (10mA CUT-OFF)	A: I/P--O/P:<0.05mA	P
14	BURN-IN TEST	I/P:24VDC O/P:FULL LOAD TA:23°C BURN-IN DURATION : 4 hrs	A: NO BREAK B: NO BREAK C: NO BREAK	P

NEXT

<table>
<tr><th>NO</th><th>TEST ITEM</th><th>TEST CONDITION / SPECIFICATION</th><th>RESULT</th><th>VERDICT</th></tr>
<tr><td>15</td><td>TEMPERATURE RISE
TEST T rise OF PARTS</td><td>A: I/P :24VDC AFTER 4 hrs BURN-IN
O/P :FULL LOAD TA:23°C
<table><tr><th>POSITION</th><th>SAMPLE</th><th>TEMP</th><th>T rise</th></tr><tr><td>CASE</td><td>DKE15B-05</td><td>51.3°C</td><td>28.3°C</td></tr></table></td><td></td><td>P</td></tr>
<tr><td>16</td><td>CONSTRUCTION
INSPECTION
(FOR QC INSPECTION
REFERENCE ONLY)</td><td colspan="3">1. PACKING : 以塑膠泡墊保護PIN腳,再以紙盒包裝
2. MARKING : MODEL LABELx1
3. MECHANICAL : MODULAR TYPE, PIN :1.0Øx5mm</td></tr>
<tr><td colspan="5">NOTE:
TEST : PASS

APPROVAL BY: Max Lin Apr./29/1998 TEST BY: T.K.CHENG Mar./25/1998</td></tr>
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